

Generation and Reservoirs Statistics

June 19, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

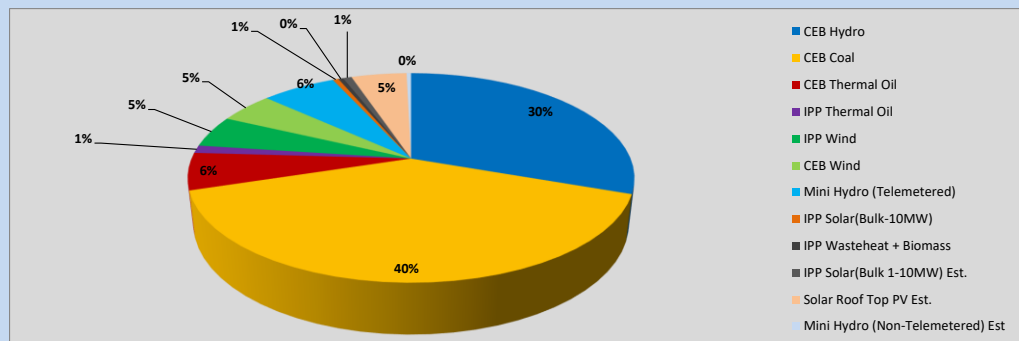


Table 01

	Generation (MWh)
CEB Hydro	14,686
CEB Coal	19,280
CEB Thermal Oil	2,768
IPP Thermal Oil	579
IPP Wind	2,363
CEB Wind	2,290
Mini Hydro (Telemetered)	3,114
IPP Solar (Bulk)	242
IPP Waste heat + Biomass	203
Total Generation (Excluding estimated figures)	45,525
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	188
* Estimated IPP Solar PV (Bulk 1-10MW)	361
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	48,394

* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1533
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	490
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	326
Rooftop Solar (LT Bulk)	285
Rooftop Solar (HT Bulk)	79

Data Source - Monthly Review Report [Jan-2024]

2. Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

Table 03 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	299	34.64%
CEB Coal	305	35.27%
CEB Thermal Oil	31	3.55%
IPP Thermal	14	1.56%
SPP Wind	35	4.05%
CEB Wind	39	4.53%
Mini Hydro *	80	9.26%
IPP Solar *	57	6.56%
IPP Waste heat + BMP	5	0.58%
Total	864	

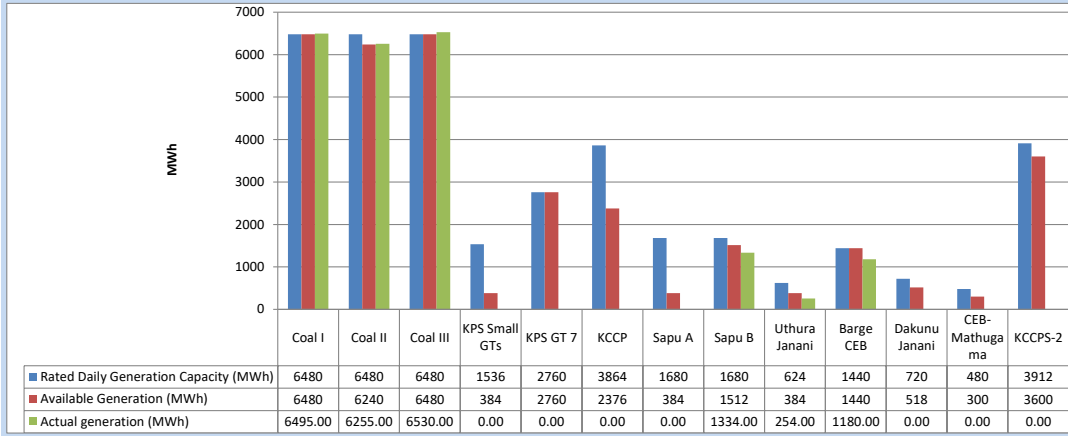
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,339	30.31%
CEB Coal	2,840	36.81%
CEB Thermal Oil	809	10.48%
IPP Thermal	431	5.58%
SPP Wind	126	1.63%
CEB Wind	133	1.73%
Mini Hydro *	512	6.63%
IPP Solar *	458	5.93%
IPP Waste heat	69	0.90%
Total	7,717	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

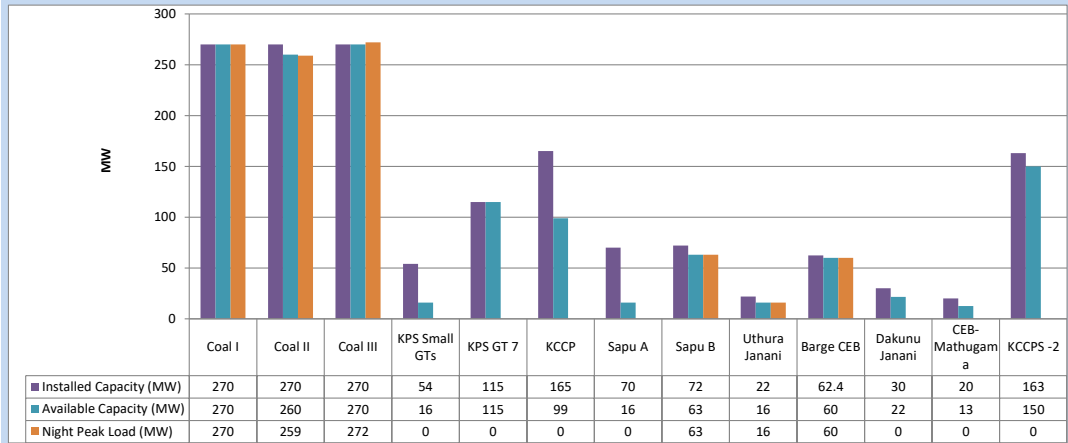
June 19, 2024



Available Generation is estimated based on plant availability at 6.00am on

June 20, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

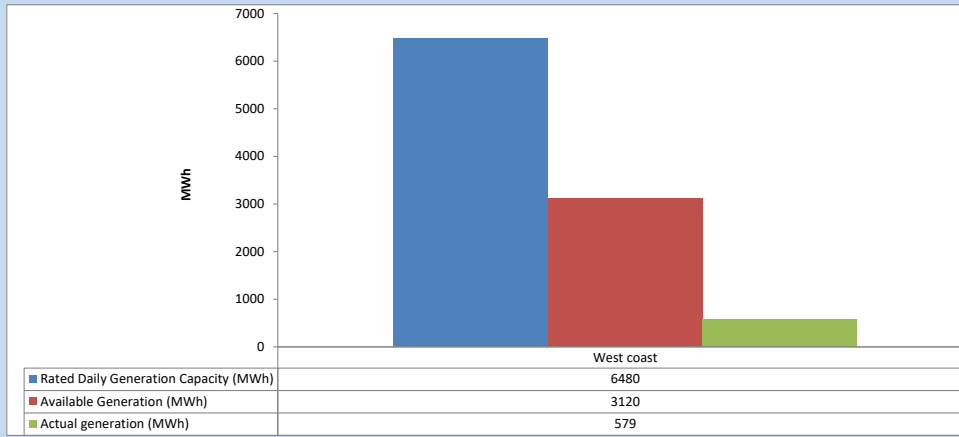


Plant availability is recorded at 6.00 am on

June 20, 2024

5. IPP owned Thermal Plant Dispatch

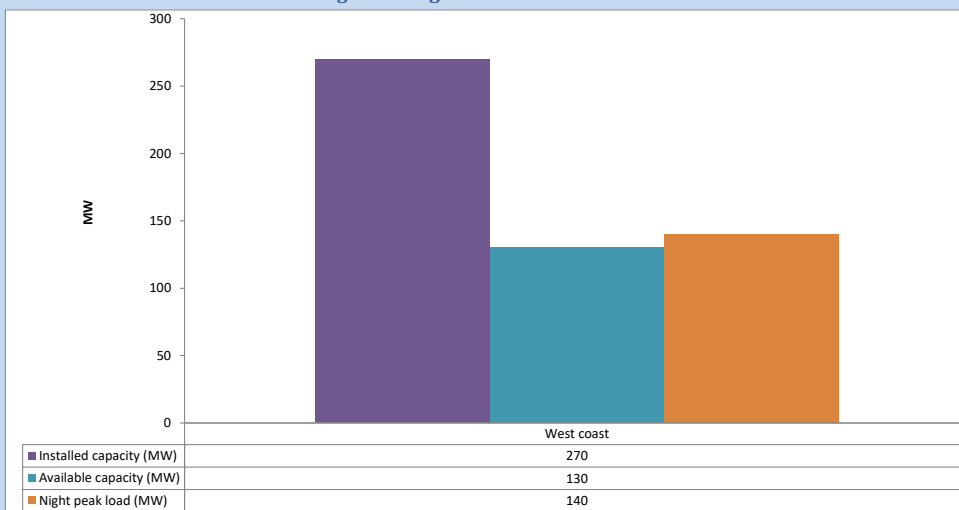
June 19, 2024



Available Generation is estimated based on plant availability at 6.00am on

June 20, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

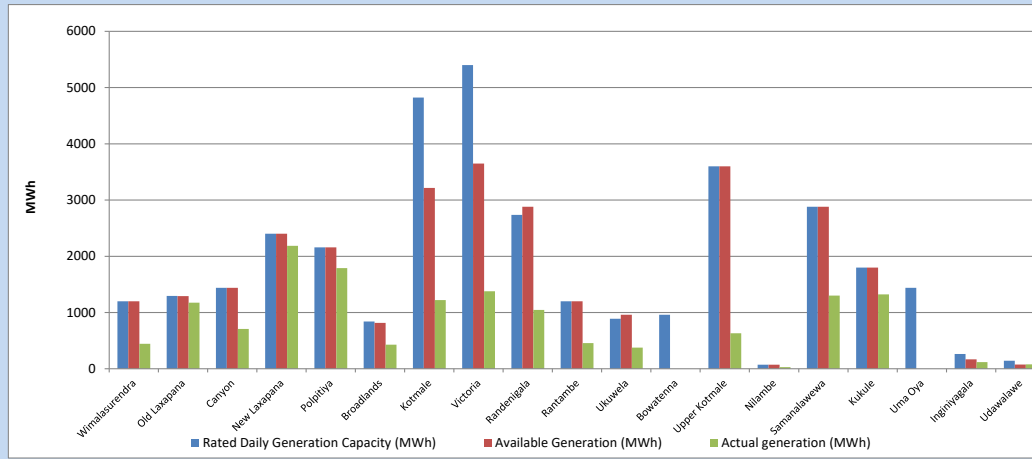


Plant availability is recorded at 6.00 am on

June 20, 2024

7. Major Hydro Plant Dispatch

June 19, 2024

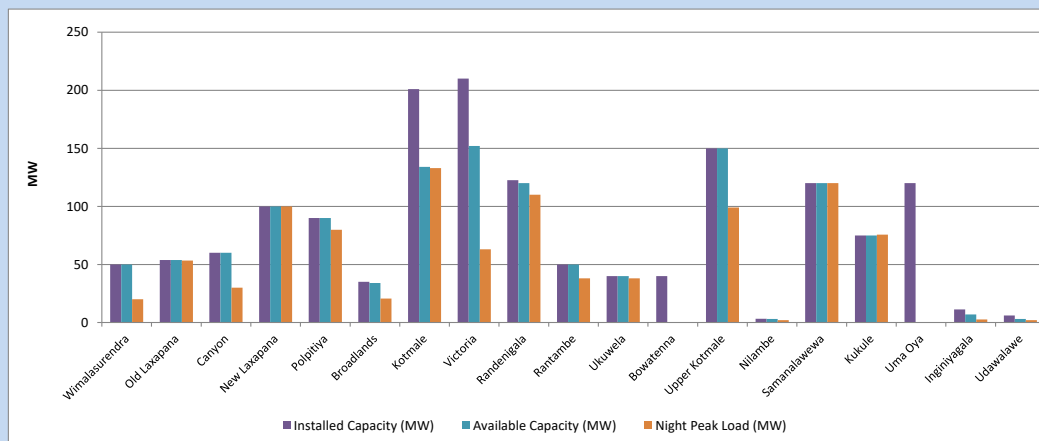


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 20, 2024

8. Major Hydro Plant Loading at Night Peak

June 19, 2024



Plant availability is recorded at 6.00 am on
Broadlands power plant is operating in the Commissioning Stage

June 20, 2024

9. Summary of Major Plant performance

Table 05

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	20	443
Old Laxapana	54	54	53	1,175
Canyon	60	60	30	708
New Laxapana	100	100	100	2,187
Polpitiya	90	90	80	1,790
Broadlands	35	34	21	427
Kotmale	201	134	133	1,220
Victoria	210	152	63	1,378
Randenigala	123	120	110	1,046
Rantambe	50	50	38	456
Ukuwela	40	40	38	377
Bowatenna	40	0	0	0
Upper Kotmale	150	150	99	631
Nilambe	3	3	2	28
Samanalawewa	120	120	120	1,301
Kukule	75	75	76	1,324
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	119
Udawalawe	6	3	2	77
Puttalam Coal I	270	270	270	6,495
Puttalam Coal II	270	260	259	6,255
Puttalam Coal III	270	270	272	6,530
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	99	0	0
Sapugaskanda A	70	16	0	0
Sapugaskanda B	72	63	63	1,334
Uthura Janani	22	16	16	254
Barge CEB	62	60	60	1,180
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	130	140	579
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,741	2,411	45,526

Note-

Plant availability is the availability recorded at 6 am on
Installed Capacity is sourced from CEB Annual Report- 2022

June 20, 2024

10. Contribution to the Night Peak in MW

June 19, 2024

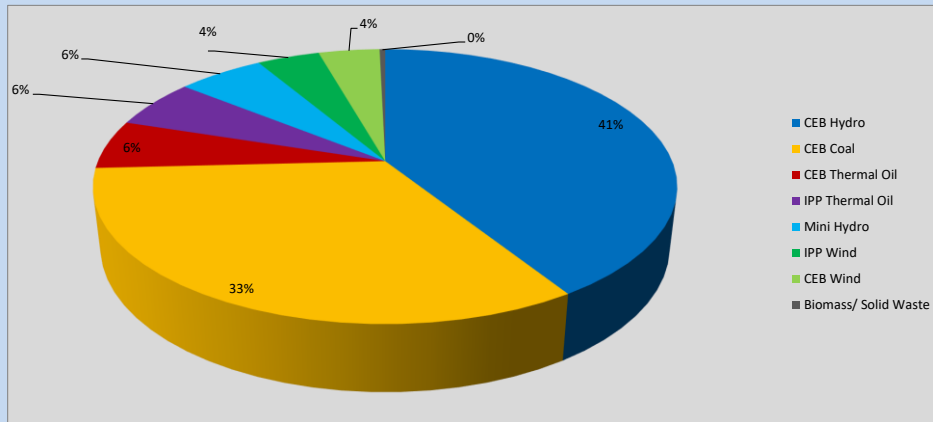


Table 06

CEB Hydro	988	MW
CEB Coal	801	MW
CEB Thermal Oil	139	MW
IPP Thermal Oil	140	MW
Mini Hydro (Telemetered)	137	MW
IPP Wind	99.6	MW
CEB Wind	97.5	MW
Biomass/ Solid Waste	9	MW

Recorded Peak Demand Data

Table 07

Night Peak*	2,412	MW
Day Peak Maximum Demand	2,184	MW
Day Peak Minimum Demand	1,739	MW
Off Peak Minimum Demand	1,485	MW

Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

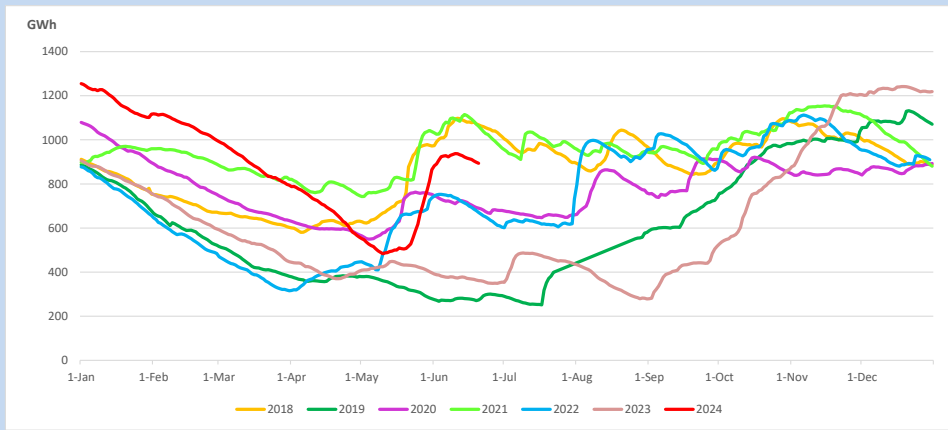
Reservoir Levels -

as at 06.00 Hr on June 20, 2024

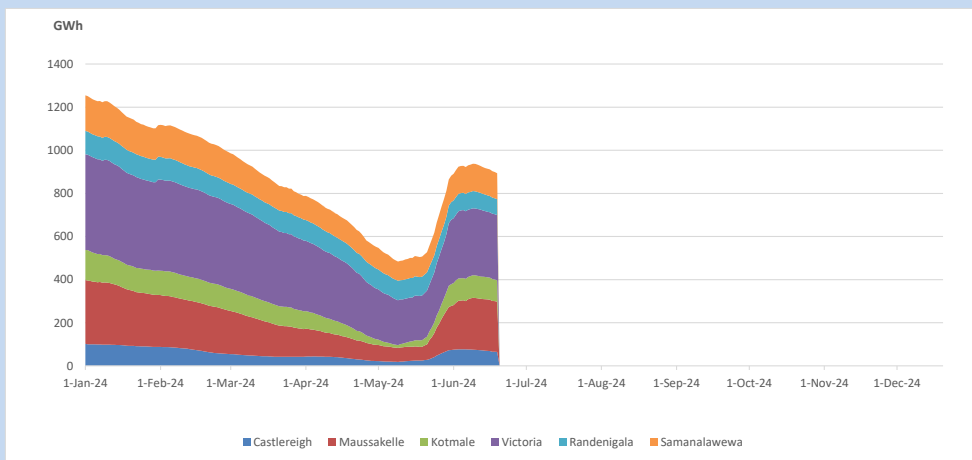


Total Reservoir Level 893.8 GWh
% of Total capacity 69.9%

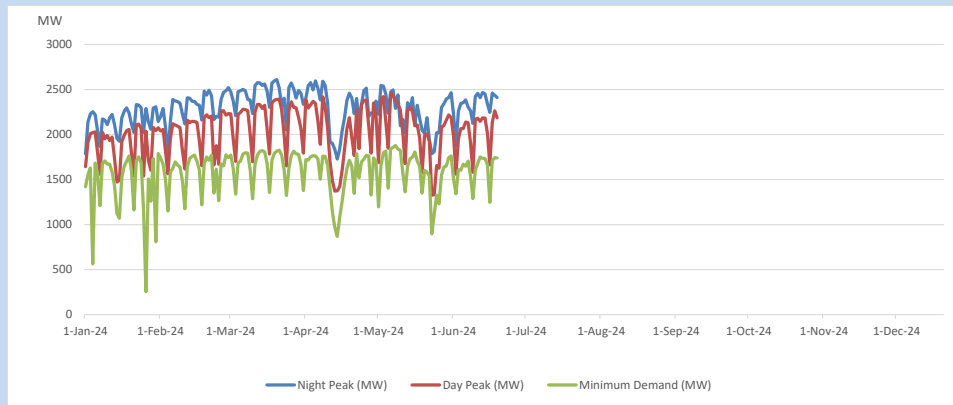
11. Comparison of Total Reservoir Storage Levels with Past Years



12. Variation of Major Hydro Reservoir Levels in the current year (GWh)



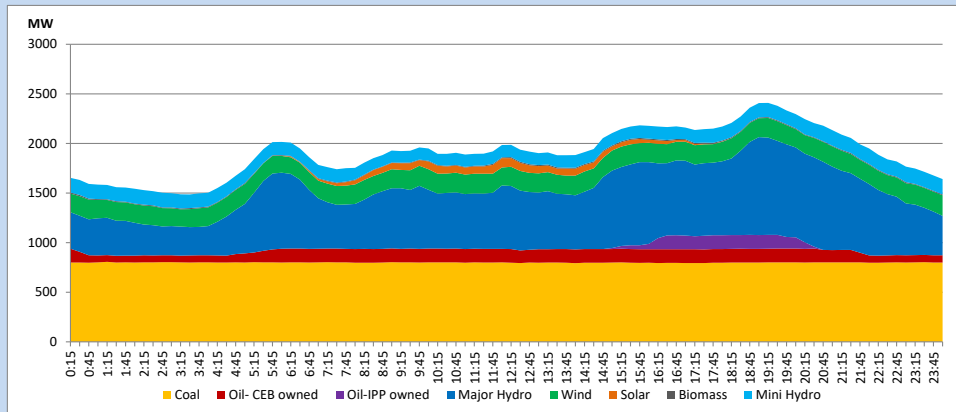
13. Variation of Demand during the current year



The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve

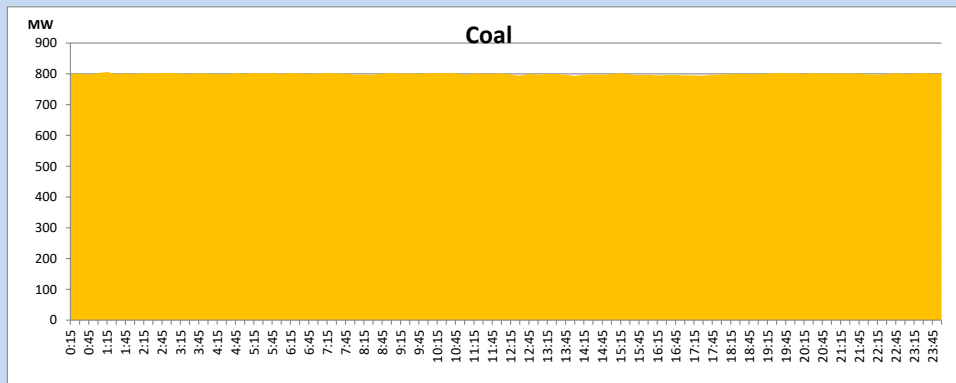
June 19, 2024



Solar and wind data is based on Telemetered Power Stations only

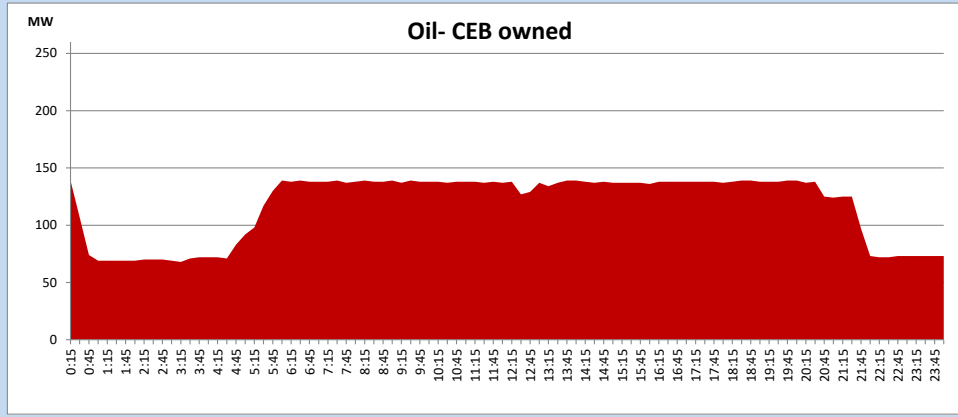
Coal Generation during

June 19, 2024



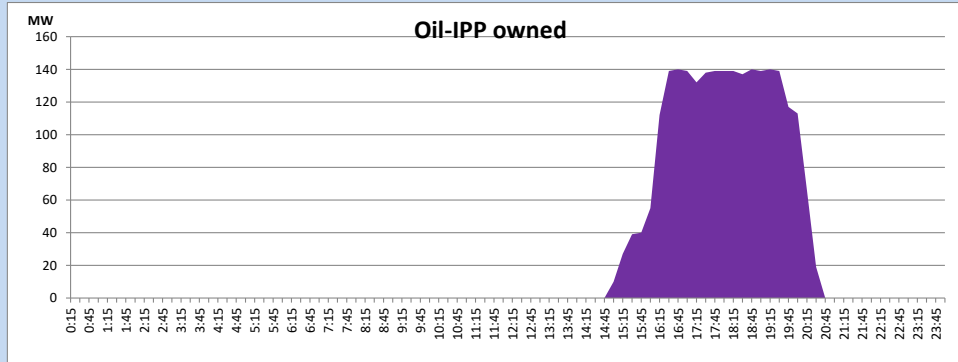
CEB Oil Plant Generation during

June 19, 2024



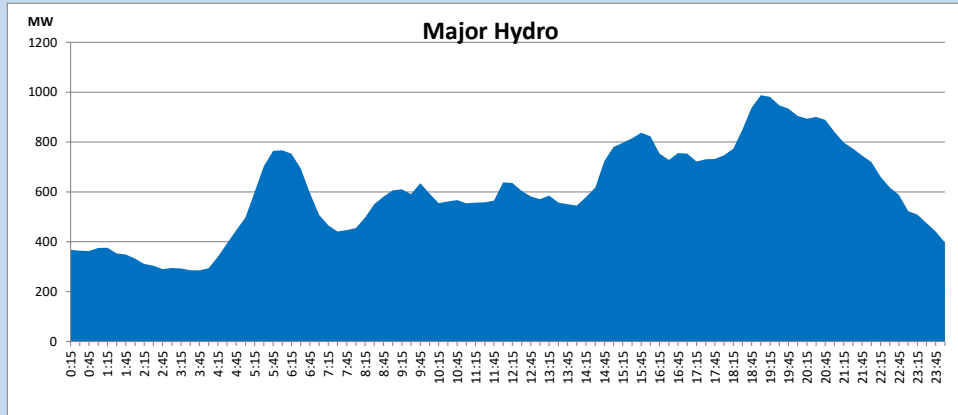
IPP Oil Plant Generation during

June 19, 2024



Major Hydro Generation during

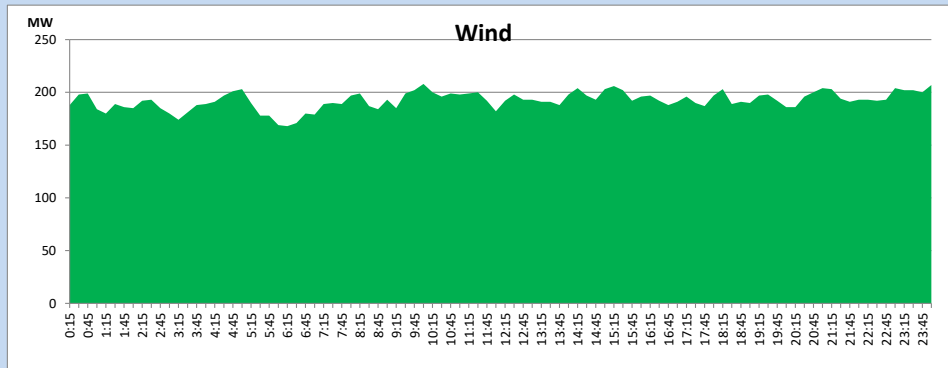
June 19, 2024



Wind Generation during

June 19, 2024

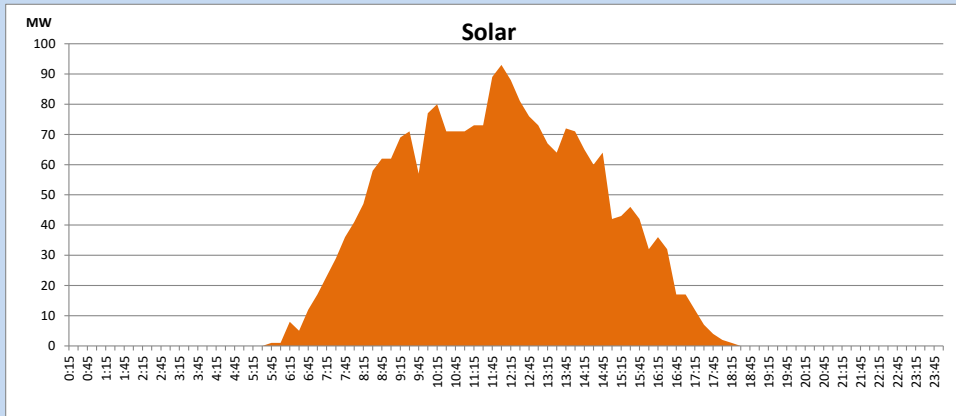
Based on Telemetered Power Stations only



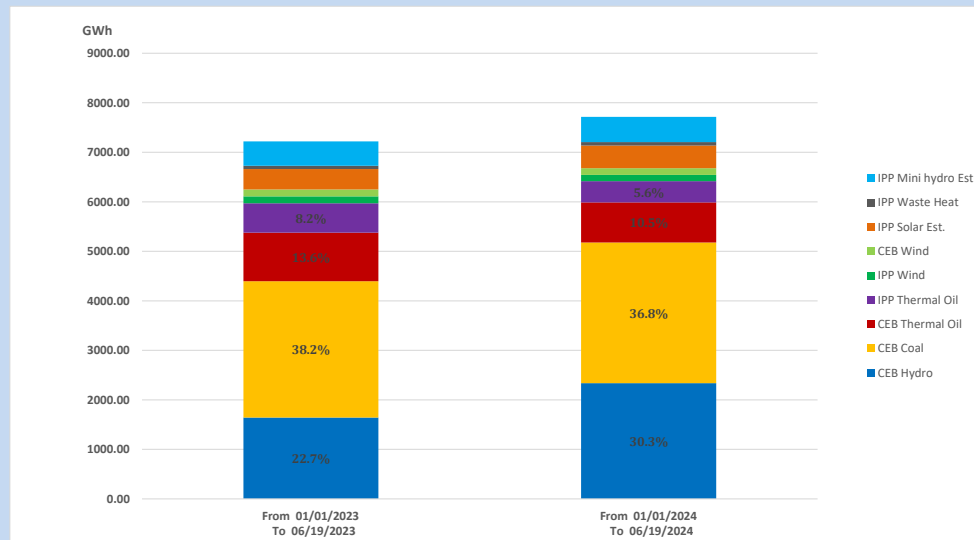
Solar Generation during

June 19, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 06/19/2023

7219 GWh

From 01/01/2024 To 06/19/2024

7717 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)

Unserviced energy due to power cuts has been excluded in 2023

Thermal Plant Fuel types

Table 08

Power Station	Primary Fuel
CEB Thermal	
Sapugaskanda 1	Heavy Fuel
Sapugaskanda 2	Heavy Fuel
Kelanitissa Small Gas Turbines	Auto Diesel
GT 7 - Kelanitissa	Auto Diesel
Kelanitissa CCY	Naphtha or Diesel
Lakvijaya 1	Coal
Lakvijaya 2	Coal
Lakvijaya 3	Coal
Uthuru Janani	Heavy Fuel
Barge CEB	Heavy Fuel
KCCPS -2	Auto Diesel

Power Station	Primary Fuel
Private Thermal	
West Coast	Auto Diesel / Heavy Fuel
Sobadhanavi	Auto Diesel

Major Incidents reported during the day

June 19, 2024

- 1) Uma Oya unit 01 made unavailable from 15:04hrs due to a distributor pipe air relief valve welding crack. The unit is yet to resume generation.

- 2) Kelanittisa GSS 132/33kV T/F 01 tripped from both ends at 14:50hrs with an indication of tap changer oil level trip. The T/F normalized at 17:25hrs.